Page 1 of 8

#30/ful

09-19-01

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/403,803A

DATE: 07/20/2001 TIME: 13:26:03

Input Set : A:\41426-A-PCT-US.txt

Output Set: N:\CRF3\07202001\H403803A.raw

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3 <110> APPLICANT: Ron S. Israeli et al.
5 <120> TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN
7 <130> FILE REFERENCE: 1769/41426-C/JPW/SHS
C--> 9 <140> CURRENT APPLICATION NUMBER: US/08/403,803A
C--> 9 <141> CURRENT FILING DATE: 1999-10-26
9 <160> NUMBER OF SEQ ID NOS: 38
11 <170> SOFTWARE: Patentin version 3.0
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 2653
15 <212> TYPE: DNA
16 <213> ORGANISM: human
18 <400> SEQUENCE: 1
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RAW SEQUENCE LISTING DATE: 07/20/2001 PATENT APPLICATION: US/08/403,803A TIME: 13:26:03

Input Set : A:\41426-A-PCT-US.txt

Output Set: N:\CRF3\07202001\H403803A.raw

95 gcatttattg atccattagg gttaccagac aggecttttt ataggcatgt catctatgct 97 ccaagcagcc acaacaagta tgcaggggag tcattccaag gaatttatga tgctctgttt 99 gatattgaaa gcaaagtgga cccttccaag gcctggggag aagtgaagag acagatttat 101 gttgcagcct tcacagtgca ggcagctgca gagactttga gtgaagtagc ctaagaggat 103 tctttagaga atccgtattg aatttgtgtg gtatgtcact cagaaagaat cgtaatgggt 105 atattgataa attttaaaat tggtatattt gaaataaagt tgaatattat atataaaaaa 107 aaaaaaaaaa aaa 110 <210> SEQ ID NO: 2 111 <211> LENGTH: 750 112 <212> TYPE: PRT 113 <213> ORGANISM: human	2160 2220 2280 2340 2400 2460 2520 2580 2640 2653
115 <400> SEQUENCE: 2 117 Met Trp Asn Leu Leu His Glu Thr Asp Ser Ala Val Ala Thr Ala Arg	
118 1 5 10 15	
120 Arg Pro Arg Trp Leu Cys Ala Gly Ala Leu Val Leu Ala Gly Gly Phe	
121 20 25 30	
123 Phe Leu Leu Gly Phe Leu Phe Gly Trp Phe Ile Lys Ser Ser Asn Glu	
124 35 40 45	
126 Ala Thr Asn Ile Thr Pro Lys His Asn Met Lys Ala Phe Leu Asp Glu	
127 50 55 60 129 Leu Lys Ala Glu Asn Ile Lys Lys Phe Leu Tyr Asn Phe Thr Gln Ile	
130 65 70 75 80	
132 Pro His Leu Ala Gly Thr Glu Gln Asn Phe Gln Leu Ala Lys Gln Ile	
133 85 90 95	
135 Gln Ser Gln Trp Lys Glu Phe Gly Leu Asp Ser Val Glu Leu Ala His	
136 100 105 110	
138 Tyr Asp Val Leu Leu Ser Tyr Pro Asn Lys Thr His Pro Asn Tyr Ile 139 115 120 125	
139 115 120 125 141 Ser Ile Ile Asn Glu Asp Gly Asn Glu Ile Phe Asn Thr Ser Leu Phe	
142 130 135 140	
144 Glu Pro Pro Pro Pro Gly Tyr Glu Asn Val Ser Asp Ile Val Pro Pro	
145 145 150 155 160	
147 Phe Ser Ala Phe Ser Pro Gln Gly Met Pro Glu Gly Asp Leu Val Tyr	
148 165 170 175	
150 Val Asn Tyr Ala Arg Thr Glu Asp Phe Phe Lys Leu Glu Arg Asp Met 151 180 185 190	
151 180 185 190 153 Lys Ile Asn Cys Ser Gly Lys Ile Val Ile Ala Arg Tyr Gly Lys Val	
153 Ly5 The Ash eys ser ony Ly5 The Van The And Ang Ty1 Gry Ly5 Van 154 195 200 205	
156 Phe Arg Gly Asn Lys Val Lys Asn Ala Gln Leu Ala Gly Ala Lys Gly	
157 210 215 220	
159 Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Gly Val Lys	
160 225 230 235 240	
162 Ser Tyr Pro Asp Gly Trp Asn Leu Pro Gly Gly Val Gln Arg Gly	
163 245 250 255	
165 Asn Ile Leu Asn Leu Asn Gly Ala Gly Asp Pro Leu Thr Pro Gly Tyr 166 260 265 270	
200 200 200	

RAW SEQUENCE LISTING DATE: 07/20/2001 PATENT APPLICATION: US/08/403,803A TIME: 13:26:03

Input Set : A:\41426-A-PCT-US.txt
Output Set: N:\CRF3\07202001\H403803A.raw

168 Pro Ala Asn Glu Tyr Ala Tyr Arg Arg Gly Ile Ala Glu Ala Val Gly 275 280 171 Leu Pro Ser Ile Pro Val His Pro Ile Gly Tyr Tyr Asp Ala Gln Lys 295 174 Leu Leu Glu Lys Met Gly Gly Ser Ala Pro Pro Asp Ser Ser Trp Arg 310 177 Gly Ser Leu Lys Val Pro Tyr Asn Val Gly Pro Gly Phe Thr Gly Asn 325 330 180 Phe Ser Thr Gln Lys Val Lys Met His Ile His Ser Thr Asn Glu Val 345 340 183 Thr Arg Ile Tyr Asn Val Ile Gly Thr Leu Arg Gly Ala Val Glu Pro 355 360 186 Asp Arg Tyr Val Ile Leu Gly Gly His Arg Asp Ser Trp Val Phe Gly 380 370 375 189 Gly Ile Asp Pro Gln Ser Gly Ala Ala Val Val His Glu Ile Val Arg 390 395 192 Ser Phe Gly Thr Leu Lys Lys Glu Gly Trp Arg Pro Arg Arg Thr Ile 405 410 195 Leu Phe Ala Ser Trp Asp Ala Glu Glu Phe Gly Leu Leu Gly Ser Thr 420 425 198 Glu Trp Ala Glu Glu Asn Ser Arg Leu Leu Gln Glu Arg Gly Val Ala 440 201 Tyr Ile Asn Ala Asp Ser Ser Ile Glu Gly Asn Tyr Thr Leu Arg Val 455 204 Asp Cys Thr Pro Leu Met Tyr Ser Leu Val His Asn Leu Thr Lys Glu 470 475 207 Leu Lys Ser Pro Asp Glu Gly Phe Glu Gly Lys Ser Leu Tyr Glu Ser 485 490 210 Trp Thr Lys Lys Ser Pro Ser Pro Glu Phe Ser Gly Met Pro Arg Ile 500 505 213 Ser Lys Leu Gly Ser Gly Asn Asp Phe Glu Val Phe Phe Gln Arg Leu 515 520 214 216 Lys Ile Ala Ser Gly Arg Ala Arg Tyr Thr Lys Asn Trp Glu Thr Asn 217 535 219 Lys Phe Ser Gly Tyr Pro Leu Tyr His Ser Val Tyr Glu Thr Tyr Glu 555 222 Leu Val Glu Lys Phe Tyr Asp Pro Met Phe Lys Tyr His Leu Thr Val 225 Ala Gln Val Arg Gly Gly Met Val Phe Glu Leu Ala Asn Ser Ile Val 585 228 Leu Pro Phe Asp Cys Arg Asp Tyr Ala Val Leu Arg Lys Tyr Ala 600 231 Asp Lys Ile Tyr Ser Ile Ser Met Lys His Pro Gln Glu Met Lys Thr 615 234 Tyr Ser Val Ser Phe Asp Ser Leu Phe Ser Ala Val Lys Asn Phe Thr 235 625 630 635 237 Glu Ile Ala Ser Lys Phe Ser Glu Arg Leu Gln Asp Phe Asp Lys Ser 650 645 240 Asn Pro Ile Val Leu Arg Met Met Asn Asp Gln Leu Met Phe Leu Glu

DATE: 07/20/2001

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PATENT APPLICATION: US/08/403,803A
                                                             TIME: 13:26:03
                     Input Set : A:\41426-A-PCT-US.txt
                     Output Set: N:\CRF3\07202001\H403803A.raw
                                         665
     243 Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg
                 675
                                    680
     246 His Val Ile Tyr Ala Pro Ser Ser His Asn Lys Tyr Ala Gly Glu Ser
     247
             690
                                 695
                                                     700
     249 Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile Glu Ser Lys Val Asp
     250 705
                             710
                                                 715
     252 Pro Ser Lys Ala Trp Gly Glu Val Lys Arg Gln Ile Tyr Val Ala Ala
                         725
                                             730
     255 Phe Thr Val Gln Ala Ala Glu Thr Leu Ser Glu Val Ala
     256
                     740
                                         745
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     259 <211> LENGTH: 8
     260 <212> TYPE: PRT
     261 <213> ORGANISM: human
     263 <400> SEQUENCE: 3
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     268 <210> SEQ ID NO: 4
     269 <211> LENGTH: 15
     270 <212> TYPE: PRT
     271 <213> ORGANISM: human
     273 <220> FEATURE:
W--> 274 <221> NAME/KEY: misc.
     275 <222> LOCATION: (1)..(15)
     276 <223> OTHER INFORMATION: x=unknown
     279 <400> SEQUENCE: 4
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     282 1
                                             10
     284 <210> SEQ ID NO: 5
     285 <211> LENGTH: 7
     286 <212> TYPE: PRT
     287 <213> ORGANISM: human
     289 <400> SEQUENCE: 5
     291 Phe Tyr Asp Pro Met Phe Lys
     292 1
     294 <210> SEQ ID NO: 6
     295 <211> LENGTH: 9
     296 <212> TYPE: PRT
     297 <213> ORGANISM: human
     299 <400> SEQUENCE: 6
     301 Ile Tyr Asn Val Ile Gly Thr Leu Lys
     302 1
     304 <210> SEQ ID NO: 7
     305 <211> LENGTH: 22
     306 <212> TYPE: PRT
     307 <213> ORGANISM: human
     309 <220> FEATURE:
W--> 310 <221> NAME/KEY: misc
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RAW SEQUENCE LISTING

DATE: 07/20/2001

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PATENT APPLICATION: US/08/403,803A
                                                              TIME: 13:26:03
                     Input Set : A:\41426-A-PCT-US.txt
                     Output Set: N:\CRF3\07202001\H403803A.raw
     311 <222> LOCATION: (1)..(22)
     312 <223> OTHER INFORMATION: x=unknown
     315 <400> SEQUENCE: 7
W--> 317 Phe Leu Tyr Xaa Xaa Thr Gln Ile Pro His Leu Ala Gly Thr Glu Gln
     318 1
                                              10
     320 Asn Phe Gln Leu Ala Lys
     321
                     20
     323 <210> SEQ ID NO: 8
     324 <211> LENGTH: 17
     325 <212> TYPE: PRT
     326 <213> ORGANISM: human
     328 <400> SEQUENCE: 8
     330 Gly Val Ile Leu Tyr Ser Asp Pro Ala Asp Tyr Phe Ala Pro Asp Val
     333 Lys
     336 <210> SEQ ID NO: 9
     337 <211> LENGTH: 17
     338 <212> TYPE: PRT
     339 <213> ORGANISM: human
     341 <400> SEQUENCE: 9
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     344 1
     346 Lys
     349 <210> SEQ ID NO: 10
     350 <211> LENGTH: 15
     351 <212> TYPE: PRT
     352 <213> ORGANISM: human
     354 <400> SEQUENCE: 10
     356 Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg Pro Phe Tyr Arg
     357 1
                                              10
     359 <210> SEQ ID NO: 11
     360 <211> LENGTH: 19
     361 <212> TYPE: PRT
     362 <213> ORGANISM: human
     364 <400> SEOUENCE: 11
     366 Tyr Ala Gly Glu Ser Phe Pro Gly Ile Tyr Asp Ala Leu Phe Asp Ile
     367 1
     369 Glu Ser Lys
     372 <210> SEQ ID NO: 12
     373 <211> LENGTH: 22
     374 <212> TYPE: PRT
     375 <213> ORGANISM: human
     377 <220> FEATURE:
W--> 378 <221> NAME/KEY: misc.
     379 <222> LOCATION: (1)..(22)
     380 <223> OTHER INFORMATION: x=unknown
     383 <400> SEQUENCE: 12
W--> 385 Thr Ile Leu Phe Ala Ser Trp Asp Ala Glu Glu Phe Gly Xaa Xaa Gly
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RAW SEQUENCE LISTING

Use of 'n' and/or 'Xaa' has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using 'n' or 'Xaa'.

<210> 13

<211> 17

<212> DNA-

<2137 artificial; primer

<220>

<221> misc.

<222> (1)..(16)

<223> n=unknown

<400> 13

ttytaygayc cnatgtt

<210> 14

<211> 17

<212> DNA

<213> artificial; primer

<220>

<221> misc

<222> (1)..(16)

<223> n=unknown

<400> 14

aacatnggrt crtaraa

<210> 15

<211> 17

<212> DNA

<213> (artificial; primer

<220>

<221> misc.

SEC HERN # 10 OM ERROR SUMMARY SHEET

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

17

17

Add 2

<210> 30	
<211> 27	1 the Solve
<212> DNA	see iten# 11 on ERKOR
<213> artificial	Sunnary SHEET.
	owin ,

<400> 30

acggagcaaa actttcagct tgcaaag

27

VERIFICATION SUMMARY

PATENT APPLICATION: US/08/403,803A

DATE: 07/20/2001 TIME: 13:26:04

Input Set : A:\41426-A-PCT-US.txt

Output Set: N:\CRF3\07202001\H403803A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:274 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4 L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:310 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7 L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:378 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12 L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 L:394 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13 L:397 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13 $\text{L}\!:\!403~\text{M}\!:\!341~\text{W}\!:$ (46) "n" or "Xaa" used, for SEQ ID#:13 L:409 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14 L:412 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14 L:418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 L:424 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15 L:427 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15 L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 L:439 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16 L:442 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16 L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 L:454 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17 L:457 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17 L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 L:469 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18 L:472 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18 L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 L:484 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19 L:487 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19 L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 L:499 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20 L:502 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20 L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 L:514 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21 L:516 M:258 W: Mandatory Feature missing, <220> FEATURE: L:516 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:523 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22 L:525 M:258 W: Mandatory Feature missing, <220> FEATURE: L:525 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:532 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23 L:535 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23 L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 L:547 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24 L:550 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24 L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 L:562 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25 L:565 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25 L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 L:577 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26

VERIFICATION SUMMARY

DATE: 07/20/2001 TIME: 13:26:04

PATENT APPLICATION: US/08/403,803A TIME:

Input Set : A:\41426-A-PCT-US.txt

Output Set: N:\CRF3\07202001\H403803A.raw

L:580 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26 L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 L:595 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27 L:603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:634 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28 $L:646\ M:341\ W:$ (46) "n" or "Xaa" used, for SEQ ID#:28 L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 L:652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 $L\!:\!656$ $M\!:\!341$ W: (46) "n" or "Xaa" used, for SEQ ID#:28 L:658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 L:669 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29 L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 L:687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 L:697 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30 L:699 M:258 W: Mandatory Feature missing, <220> FEATURE: L:699 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:706 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:31 L:708 M:258 W: Mandatory Feature missing, <220> FEATURE: L:708 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:716 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:32 L:718 M:258 W: Mandatory Feature missing, <220> FEATURE: L:718 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:725 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:33 L:727 M:258 W: Mandatory Feature missing, <220> FEATURE: L:727 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:734 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:34 L:736 M:258 W: Mandatory Feature missing, <220> FEATURE: L:736 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

RECEIVED

SEP 1 1 2001

Raw Sequence Listing Error Summary

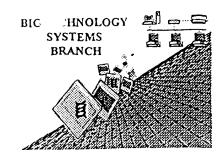
TECH CENTER 1600/2900

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: <u>U8/403</u> , 803A			
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE				
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."			
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.			
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.			
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.			
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.			
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.			
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped			
٠.	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.			
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000			
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.			
Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence			
11Use of <220>	Sequence(s) 20 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)			
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, places use "File Manager" or any other manual means to copy file to floppy disk			

AMC - Biotechnology Systems Branch - 06/04/2001

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RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	08/403,803Ā
Source:	1752
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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1 821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker